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	Application No.	Applicant(s)
Nation of Allowahility	10/811,261	HUANG ET AL.
Notice of Allowability	Examiner	Art Unit
	Phu Vu	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/6/2005</u> .		
2. The allowed claim(s) is/are 5 and 9-19.		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
— (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Date 	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date		ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. X Examiner's Stateme	ent of Reasons for Allowance
or biological material	9.	
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DETAILED ACTION

1. It is hereby acknowledged that the following papers have been received and placed of record in the file: Amendment A (dated 9/14/2005)

2. Claims 5 and 9-19 are presented for examination.

Allowable Subject Matter

Claims 5 and 9-19 are allowed.

The following is an examiner's statement of reasons for allowance: There is no prior art of record that teaches or renders obvious to one of ordinary skill in the art a quarter wave plate comprising a twisted nematic-liquid crystal polymeric film sandwiched between a first and second uniaxial polymeric film to form a quarter waveplate device with broadband spectrum. Broadband spectrum is interpreted in the art as well as applicant's specification as a range of 400-700 nm. Yoon in the article " Nontwisted quarter-wave liquid crystal cell for high contrast display" teaches a non-twist (ie not twisted nematic) quarter wave liquid crystal layer in combination with a half-wave plate to form a broadband quarter wave plate. Yoon also shows combination of a twisted nematic liquid crystal cell with a wideband quarter waveplate but indicates that a wideband quarter wave film is costly. The invention does not rely on a single wideband quarter wave film but two uniaxial films arranged with a polymeric TN-cell between to form a wideband quarter wave film. Zhu in a prior application teaches another combitation of a half-wave film and a twisted nematic LC polymeric film to form a broadband quarter wave plate (US 6922221), however applicant's provisional

application excludes this as prior art. In addition this reference does not disclose using two unixial films in combination with a TN-LC polyermic film to form a quarter wave film.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu Vu whose telephone number is (571)-272-1562. The examiner can normally be reached on 8AM-5PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571)-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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